

Area of application

This load limiter is specially designed to manage one or two safety thresholds on small and medium capacity overhead travelling cranes.

Operating principle

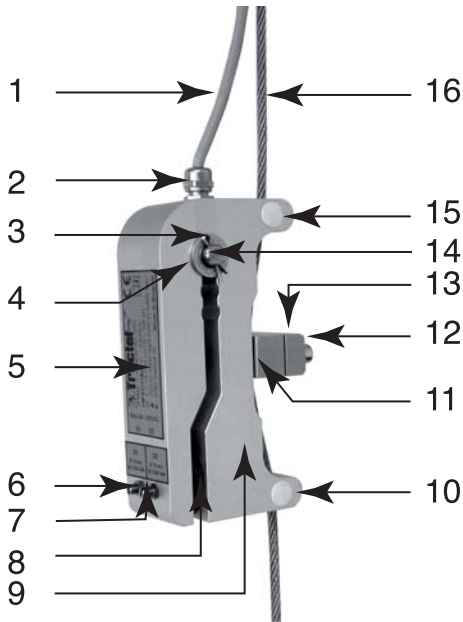
Deflection of the wire rope exerted by the load limiter produces a tangential force which is proportional to the force exerted on the wire rope when pulled. Deformation of the load limiter body causes the micro switches integrated in the load limiter to open.

Technical specifications

Installation : directly on idle strand.
Repeatability : 1% EM
Measurement sensor : 2 integrated micro switches.
Contact 1: 1 NO, 1 NC.
Contact 2: 1 NO, 1 NC.
Cut-out voltage : 230 VAC max.
Cut-out intensity : 4 amps max.
Connection : electrical cable, 7 conductors.
Electrical output: : cable gland
Length of cord : 2 meters.
Calibration system : by screws.
Hysteresis : 200 daN on strand.
Operating temperature : -30° to +80° C.
Protection degree : I.P 63.
Material : aerospace quality aluminium.
Surface treatment : anodizing.
Maintenance : none.

Options

Factory calibration option (for each threshold, indicate wire rope diameter + force on strand).



Parts list of load limiter

- 1- Connecting cable
- 2- Cable gland
- 3- Cotter pin
- 4- Zinc-plated washer
- 5- Nameplate
- 6- Threshold 1:
Adjustment screw and locknut
- 7- Threshold 2:
Adjustment screw and locknut
- 8- Protective rubber piece
- 9- Deformation cell
- 10- Lower guide
- 11- Fixed half-clamp
- 12- Mounting screw
- 13- Mobile half-clamp
- 14- Compression pin
- 15- Upper guide
- 16- Pull wire rope (idle strand)

Designation, characteristics and outline dimensions

Type	Code	Wire rope diameter mm	Capacity daN	Width mm	Length mm	Thickness mm	Weight kg
HF 31/1/A2	87768	From 5 to 16	From 200 to 3200	86	150	40	0.84